## THE SCIENCE OF MENTAL ILLNESS

Wisconsin Model Academic Standards for Science – Grade 8				
Lesson	Standard	Description		
1, 2, 3	A.8.1	Develop their understanding of the science themes by using the themes to frame questions about science-related issues and problems.		
1, 2, 3	A.8.3	Defend explanations and models by collecting and organizing evidence that supports them and critique explanations and models by collecting and organizing evidence that conflicts with them.		
1, 2, 3	A.8.6	Use models and explanations to predict actions and events in the natural world.		
3	A.8.7	Design real or thought investigations to test the usefulness and limitations of a model.		
1, 2, 3	B.8.3	Explain how the general rules of science apply to the development and use of evidence in science investigations, model making, and applications.		
1, 2, 3	B.8.5	Explain ways in which science knowledge is shared, checked, and extended, and show how these processes change over time.		
2, 3	B.8.6	Explain the ways in which scientific knowledge is useful and also limited when applied to social issues.		
1, 2, 3	C.8.1	Identify questions they can investigate using resources and equipment they have available.		
1, 2, 5	C.8.2	Identify data and locate sources of information including their own records to answer the questions being investigated.		
1, 2	C.8.3	Design and safely conduct investigations that provide reliable quantitative or qualitative data, as appropriate, to answer their questions.		
1, 2	C.8.4	Use inferences to help decide possible results of their investigations, use observations to check their inferences.		
1, 2, 3	C.8.5	Use accepted scientific knowledge, models, and theories to explain their results and to raise further questions about their investigations.		
1, 2, 3, 5	C.8.6	State what they have learned from investigations, relating their inferences to scientific knowledge and to data they have collected.		
1, 2, 3	C.8.7	Explain their data and conclusions in ways that allow an audience to understand the questions they selected for investigation and the answers they have developed.		
1, 2, 5	C.8.8	Use computer software and other technologies to organize, process, and present their data.		
1, 2, 3, 5	C.8.9	Evaluate, explain, and defend the validity of questions, hypotheses, and conclusions to their investigations.		

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## WISCONSIN ALIGNMENT FOR NIH SUPPLEMENT THE SCIENCE OF MENTAL ILLNESS

1, 2, 3, 5	C.8.10	Discuss the importance of their results and implications of their work with peers, teachers, and other adults.		
1, 2, 3, 5	C.8.11	Raise further questions which still need to be answered.		
1, 2	F.8.1	Understand the structure and function of cells, organs, tissues, organ systems, and whole organisms.		
1	F.8.2	Show how organisms have adapted structures to match their functions, providing means of encouraging individual and group survival within specific environments.		
3	F.8.4	Investigate and explain that heredity is comprised of the characteristic traits found in genes within the cell of an organism.		
1, 2, 3, 5	F.8.6	Understand that an organism is regulated both internally and externally		
1, 3, 5	F.8.7	Understand that an organism's behavior evolves through adaptation to its environment.		
1, 4, 5	G.8.3	Illustrate the impact that science and technology have had, both good and bad, on careers, systems, society, environment, and quality of life.		
1, 2	G.8.7	Show evidence of how science and technology are interdependent, using some examples drawn from personally conducted investigations.		
4	H.8.2	Present a scientific solution to a problem involving the earth and space, life and environmental, or physical sciences and participate in a consensus-building discussion to arrive at a group decision.		
3, 4, 5, 6	H.8.3	Understand the consequences of decisions affecting personal health and safety.		
Wisconsin Model Academic Standards for Mathematics – Grade 8				
Lesson	C4			
	Standard	Description		
1, 2, 3	A.8.1	Description  Use reasoning abilities to: evaluate information, perceive patterns, identify relationships, formulate questions for further exploration, evaluate strategies, justify statements, test reasonableness of results, and defend work.		
1, 2, 3		Use reasoning abilities to: evaluate information, perceive patterns, identify relationships, formulate questions for		
	A.8.1	Use reasoning abilities to: evaluate information, perceive patterns, identify relationships, formulate questions for further exploration, evaluate strategies, justify statements, test reasonableness of results, and defend work.  Analyze non-routine problems by modeling, illustrating, guessing, simplifying, generalizing, shifting to another		
3	A.8.3	Use reasoning abilities to: evaluate information, perceive patterns, identify relationships, formulate questions for further exploration, evaluate strategies, justify statements, test reasonableness of results, and defend work.  Analyze non-routine problems by modeling, illustrating, guessing, simplifying, generalizing, shifting to another point of view, etc.  Read, represent, and interpret various rational numbers (whole numbers, integers, decimals, fractions, and percents)		
3	A.8.1 A.8.3 B.8.1	Use reasoning abilities to: evaluate information, perceive patterns, identify relationships, formulate questions for further exploration, evaluate strategies, justify statements, test reasonableness of results, and defend work.  Analyze non-routine problems by modeling, illustrating, guessing, simplifying, generalizing, shifting to another point of view, etc.  Read, represent, and interpret various rational numbers (whole numbers, integers, decimals, fractions, and percents) with verbal descriptions, geometric models, and mathematical notation (e.g., expanded, scientific, exponential).  Perform and explain operations on rational numbers (add, subtract, multiply, divide, raise to a power, extract a		
3 3	A.8.1 A.8.3 B.8.1 B.8.2	Use reasoning abilities to: evaluate information, perceive patterns, identify relationships, formulate questions for further exploration, evaluate strategies, justify statements, test reasonableness of results, and defend work.  Analyze non-routine problems by modeling, illustrating, guessing, simplifying, generalizing, shifting to another point of view, etc.  Read, represent, and interpret various rational numbers (whole numbers, integers, decimals, fractions, and percents) with verbal descriptions, geometric models, and mathematical notation (e.g., expanded, scientific, exponential).  Perform and explain operations on rational numbers (add, subtract, multiply, divide, raise to a power, extract a root, take opposites and reciprocals, determine absolute value).  Organize and display data from statistical investigations using: appropriate tables, graphs, and/or charts (e.g.,		

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## WISCONSIN ALIGNMENT FOR NIH SUPPLEMENT THE SCIENCE OF MENTAL ILLNESS

		Wisconsin Model Academic Standards for English Language Arts – Grade 8		
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Lesson	Standard	Description		
1, 2, 3, 4	A.8.1	Use effective reading strategies to achieve their purposes in reading.		
1, 2, 3, 4	A.8.4	Read to acquire information.		
All lessons	B.8.1	Create or produce writing to communicate with different audiences for a variety of purposes.		
All lessons	B.8.3	Understand the function of various forms, structures, and punctuation marks of standard American English and use them appropriately in communications.		
All lessons	C.8.1	Orally communicate information, opinions, and ideas effectively to different audiences for a variety of purposes.		
All lessons	C.8.2	Listen to and comprehend oral communications.		
All lessons	C.8.3	Participate effectively in discussion.		
All lessons	D.8.1	Develop their vocabulary and ability to use words, phrases, idioms, and various grammatical structures as a means of improving communication.		
1, 2	E.8.1	Use computers to acquire, organize, analyze, and communicate information.		
1, 2, 4, 5, 6	F.8.1	Conduct research and inquiry on self-selected or assigned topics, issues, or problems and use an appropriate form to communicate their findings.		
Wisconsin Model Academic Standards for Health Education – Grade 8				
Lesson	Standard	Description		
All lessons	A.8.1	Describe the interrelationships of mental, emotional, social, and physical health during adolescence.		
3, 4, 5	A.8.2	Analyze how environments and personal health are interrelated.		
3, 4, 5, 6	A.8.3	Describe how to enhance health and reduce risks during adolescence.		
2, 3, 5, 6	A.8.4	Describe how lifestyle, family history, and other risk factors are related to the cause or prevention of disease and other health problems.		
2, 3	A.8.5	Explain how health in influenced by the interaction of body systems.		
2, 3, 6	A.8.6	Explain how family and peers influence the personal health of adolescents.		
3, 4, 5	A.8.7	Explain the relationship between positive health behaviors and the prevention of injury, illness, disease, and premature death.		
3, 4, 5, 6	B.8.1	Explain the importance of assuming responsibility for personal health behaviors.		

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3, 4, 5	B.8.3	Analyze the short-term and long-term consequences of various behaviors.
6	<b>B.8.4</b>	Demonstrate strategies to improve and maintain personal and family health.
2, 3, 4, 5, 6	C.8.1	Demonstrate the ability to individually and collaboratively apply a decision-making process to health issues.
3, 5, 6	C.8.2	Analyze how health-related decisions are influenced by individuals, family, and community values.
3, 4, 5, 6	C.8.3	Analyze how decisions regarding health behaviors have consequences for themselves and others.
2, 3, 4, 5	D.8.1	Analyze the validity of health information, products, and services.
2, 3, 4, 5	<b>D.8.6</b>	Describe situations requiring professional health services.
4, 5	E.8.3	Analyze the influence of technology on personal and family health.
5, 6	E.8.4	Analyze how information from peers influences health.
4, 5, 6	F.8.3	Demonstrate ways to communicate care, consideration, and respect for themselves and others.
2, 3, 4, 5, 6	G.8.1	Analyze various methods to accurately express health information and ideas.
2, 3, 4, 5, 6	G.8.2	Convey valid information and express opinions about health issues.
2, 3, 4, 5, 6	G.8.4	Demonstrate the ability to influence and support others in making positive health choices.

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